

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-98638 - Front Right Wheel Hub

Sample No: LH0268266

Oil Type: LIEBHERR GEAR BASIC 90 LS



AMERICAN STATE EQUIPMENT CO.
 2055 SOUTH 108TH STREET
 MILWAUKEE, WI
 US 53227
 Contact: RAY SCHMIDT
 RSCHMIDT@AMSTATE.COM
 T: (414)234-0854
 F: (414)541-1892



SAMPLE INFORMATION

Sample Number	LH0268266	LH0263935	LH0245049	LH0221006
Sample Date	25 Jan 2024	17 Aug 2023	29 Mar 2023	29 Sep 2022
Machine Hours	13406	12191	11277	10101
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	120	126	140	182
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	5	6	6
Sodium	ppm	0	0	1	3
Potassium	ppm	0	2	0	2



WEAR METALS

Iron	ppm	79	93	90	94
Copper	ppm	4	7	4	9
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	2	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	1	2	1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	25	32	34	14
Magnesium	ppm	0	8	5	3
Zinc	ppm	13	24	13	16
Phosphorus	ppm	819	824	1070	2321
Barium	ppm	0	0	0	0
Boron	ppm	1	2	2	4

Diagnosis

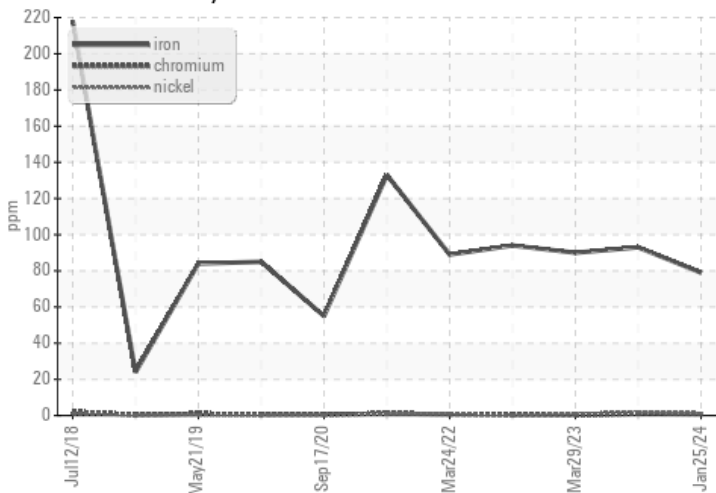
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0007
 Unique No: 10857286
 Signed: Sean Felton
 Report Date: 01 Feb 2024

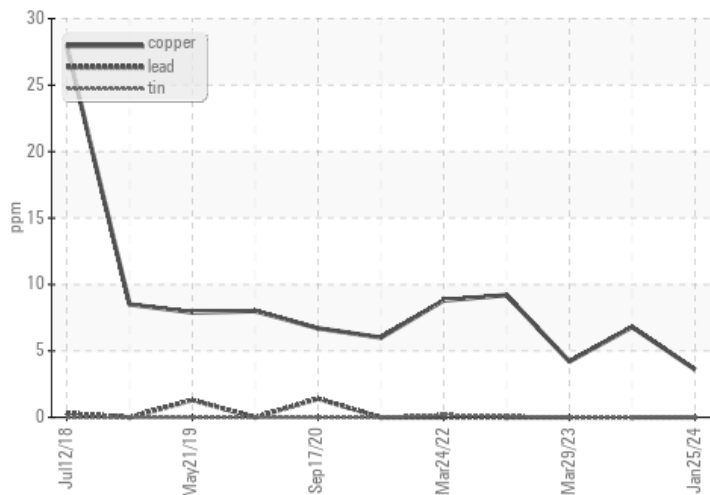


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

